

FIG. 1

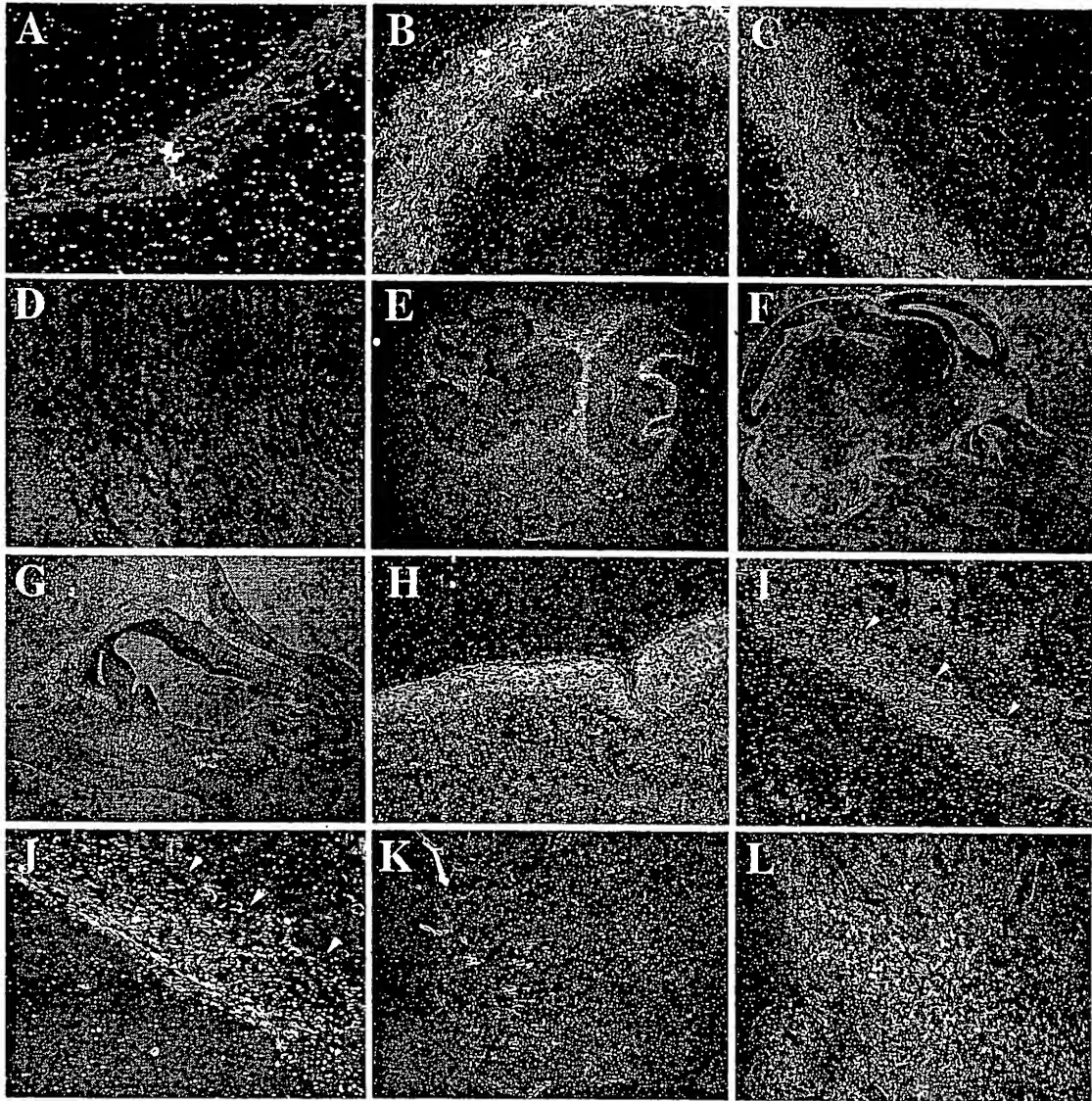


FIG. 2

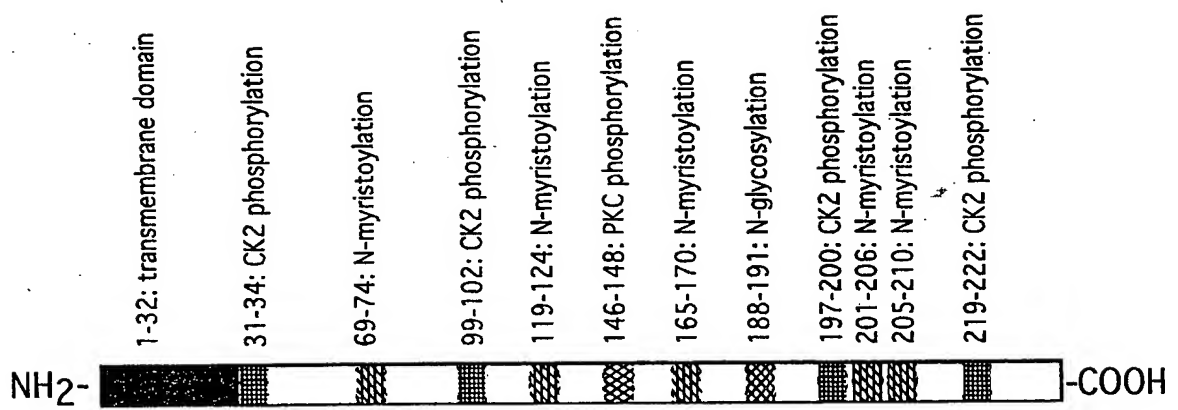


FIG. 3

Rat CCCTTTGCTCTCTGCTCTGCGCTTCGCGCTACCGCACACGATGACCCCCAAGGCCGCG  
Human TCCTCCGCTCCAGCTCCGCGCTGCGCGCAGCCGGGAGCCATGCGACCCAGGGCCCCG

70 80 90 100 110 120

Rat 140 150 160 170 180 190  
CGCGCTCCCCACAGCTGCTGCTCGGCTCTTCTTGTGCTACTGCTGCTTCTGCACTGT  
Human CGCGCTCCCCCAGCGGCTCCGCGGCTCTCT-----GCTGCTCTGCTGCTGCACTGC

130 140 150 160 170

Rat 200 210 220 230 240 250  
CGCGCGCTCCAGCGGCTCTGAGAATCCCAAGGTGAAGCAAAAGCGCTGATCCGGCAGA  
Human CGCGCGCTCGAGCGGCTCTGAGATCCCAAGGGGAAGCAAAAGCGCAGCTCCGGCAGA

180 190 200 210 220 230  
260 270 280 290 300 310

Rat GGAAGTGGTAGACCTGTATAATGGGATGTGCCTACAAGGACCAGCAGGATTCCTGGTC  
Human GGGAGTGGTAGACCTGTATAATGGAATGTGCTTACAAGGGCCAGCAGGATGTCTGGTC

240 250 260 270 280 290  
320 330 340 350 360 370

Rat GCGATGGGAGCCCTGGGGCCAATGGCATTCTTGGCACACCGGGAATCCAGGTTCGGGATG  
Human GAGACGGGAGCCCTGGGGCCAATGGCATTCCGGGTACACCTGGGATCCAGGTTCGGGATG

300 310 320 330 340 350  
380 390 400 410 420 430

Rat GATTCAAAGGAGAGAAAGGGGAGTGTCTAAGGGAAAGCTTTGAGGAATCTTGGACCCCAA  
Human GATTCAAAGGAGAGAAAGGGGAATGTCTGAGGGAAAGCTTTGAGGAGTCTTGGACACCCA

360 370 380 390 400 410  
440 450 460 470 480 490

Rat ACTCAAAGCAGTGTTCATGGAGTTCATTAAATTATGGCATAGATCTTGGGAAATTCGCGG  
Human ACTCAAAGCAGTGTTCATGGAGTTCATTGAATTATGGCATAGATCTTGGGAAATTCGCGG

420 430 440 450 460 470  
500 510 520 530 540 550

Rat AATGTACATTCAAAAGATGCGATCCAACAGCGCTCTTCGAGTTCTGTTCACTGGCTCGC  
Human AGTGTACATTCAAAAGATGCGTTCAAATAGTGTCTTAAGAGTTTGTTCAGTGGCTCAC

480 490 500 510 520 530  
560 570 580 590 600 610

Rat TTCGGCTCAAATGCAGGAATGCTTGTGTCAACGCTGGTATTTTACCTTTAATGGAGCTG  
Human TTCGGCTAAAATGCAGAAATGCTGTGTCAGCGTTGGTATTTACATTCAATGGAGCTG

540 550 560 570 580 590  
620 630 640 650 660 670

Rat AATGTTCAAGACCTCTTCCCATTTGAAGCTATCTATCTGGACCAAGGAAGCCCTGAGT  
Human AATGTTCAAGACCTCTTCCCATTTGAAGCTATAATTTATTTGGACCAAGGAAGCCCTGAA

600 610 620 630 640 650  
680 690 700 710 720 730

Rat TAAATTCAACTATTAAATATTCATCGTACTTCTCCGTGGAAGGACTCTGTGAAGGGATTG  
Human TGAATTCAACAATTAATATTCATCGCACTTCTTCTGTGGAAGGACTTTGTGAAGGAATTG

660 670 680 690 700 710  
740 750 760 770 780 790

Rat GTGCTGGACTGGTAGACGTGGCCATCTGGGTGCGCACCTGTTGAGATTACCCAAAGGAG  
Human GTGCTGGATTAGTGGATGTGCTATCTGGGTGGCACTTGTTCAGATTACCCAAAGGAG

720 730 740 750 760 770  
800 810 820 830 840 850

Rat ACGCTTCTACTGGGTGGAATTCGTGTCCCGCATCATCATTGAAGAACTACCAAAATAAA  
Human ATGCTTCTACTGGATGGAATTCAGTTTCTCGCATCATTATTGAAGAACTACCAAAATAAA

780 790 800 810 820 830  
860 870 880 890 900 910

Rat GCCCCTGAAGTTTCATTCCCTGCCTCATTACTTGTAAATCAAGCCTCTGGATGGGTC  
Human TGCTTTAAT--TTTCAATTGCTACCTCTTTTTTT-----ATTATGCCTTGAATGGTTC

840 850 860 870 880  
920 930 940 950 960 970

Rat ATTTAAATGACATTTCAGAAGTCACTTATGTGCTCAGCCAAATGAAAAGCAAAGTTAAA  
Human ACTTAAATGACATTTTA--AATAAGTTTATGTATACATCTGAATGAAA--GCAAAGCTAAA

890 900 910 920 930 940  
980 990 1000 1010 1020 1030

Rat TACGTTTACAGACCAAAGTGTGATCTCACACT---TTAAGATCTAGCATTATCCATTTTA  
Human TATGTTTACAGACCAAAGTGTGATTTTCACTGTTTAAATCTAGCATTATTCATTTTG

950 960 970 980 990 1000  
1040 1050 1060 1070 1080

Rat TTTCAACCAAGATGGTTTCAGGATTTTATTTCTCATT--GATTACTTTTGG-----  
Human CTTCAATCAAAGTGGTTTCAATATTTTCTAGTTGGTTAGAATACTTCTTCATAGTCA

1010 1020 1030 1040 1050 1060  
1090 1100 1110 1120 1130

Rat -----AGCCTATATACCGGAATGCTGTATAGTCTTTAATATTTCTACT--GTTGA  
Human CATCTCTCAACCTATAATTGGAATATGTTGTGGTCTTTTCTTTCTCTTAGTATA

1070 1080 1090 1100 1110 1120  
1140 1150 1160 1170 1180

Rat -CATTTTGAACA--TATAAAGTTATG--TCTTTGTAAGAGCTGTATA-----GAATT  
Human GCATTTTAAAAAATATAAAGCTACCAATCTTTGTACAATTTGTAATGTTAAGAATT

1130 1140 1150 1160 1170 1180  
1190 1200 1210 1220

Rat ATTTT---ATATGTTAAATAAA---TGCTTCAACAA  
Human TTTTATATCTGTTAAATAAAATTTTCAACAA

1190 1200 1210 1220

Fig. 4A

Rat:	1	MHPQGRAASPQLLGLFLVLLLLLQLSAPSSASENPKVKQKALIRQREVVDLYNGMCLQG	60
		M+PQG+AASPQ+L+GL+++LLLLLQL+APSSASE+PK+KQKA++RQREVVDLYNGMCLQG	
Human:	1	MRPQGPAAASPQRLRGL--LLLLLQLPAPSSASEIPKQKQKALRQREVVDLYNGMCLQG	58
Rat:	61	PAGVPGRDGSPGANGIPGTPGIPGRDGFKEGKECLRESFEESWTPNYKQCSWSSLNYGI	120
		PAGVPGRDGSPGANGIPGTPGIPGRDGFKEGKECLRESFEESWTPNYKQCSWSSLNYGI	
Human:	59	PAGVPGRDGSPGANGIPGTPGIPGRDGFKEGKECLRESFEESWTPNYKQCSWSSLNYGI	118
Rat:	121	DLGKIAECTFTKMRSNSALRVLFSGSLRLKCRNACCQRWYFTFNGAECSGPLPIEAIYYL	180
		DLGKIAECTFTKMRSNSALRVLFSGSLRLKCRNACCQRWYFTFNGAECSGPLPIEAIYYL	
Human:	119	DLGKIAECTFTKMRSNSALRVLFSGSLRLKCRNACCQRWYFTFNGAECSGPLPIEAIYYL	178
Rat:	181	DQGSPELNSTINIHTSSVEGLCEGIGAGLVDVAIWVGTCSDYPKGDASTGWNVSRIII	240
		DQGSPE+NSTINIHTSSVEGLCEGIGAGLVDVAIWVGTCSDYPKGDASTGWNVSRIII	
Human:	179	DQGSPEMNSTINIHTSSVEGLCEGIGAGLVDVAIWVGTCSDYPKGDASTGWNVSRIII	238
Rat:	241	EELPK 245	
		EELPK	
Human:	239	EELPK 243	

Fig. 4B

MRPAAELGQTL SRAGLCRPLCLLLCASQLPHTMHPQGRAASPQLLLGLFLVLLLLLQL  
SAPSSASENPKVKQKALIRQREVVDLYNGMCLQGPAGVPGRDGSPGANGIPGTPGIPG  
RDGFKGEKGECLRESFEESWTPNYKQCSWSSLNYGIDLKIAECTFTKMRSNSALRVL  
FSGSLRLKCRNACCQRWYFTFNGAECGPLPIEAIYLDQGSPELNSTINIHRSSVE  
GLCEGIGAGLVDVAIWVGTCSDYPKGDASTGWNSVSRIIIIEELPK

**FIG. 4C**

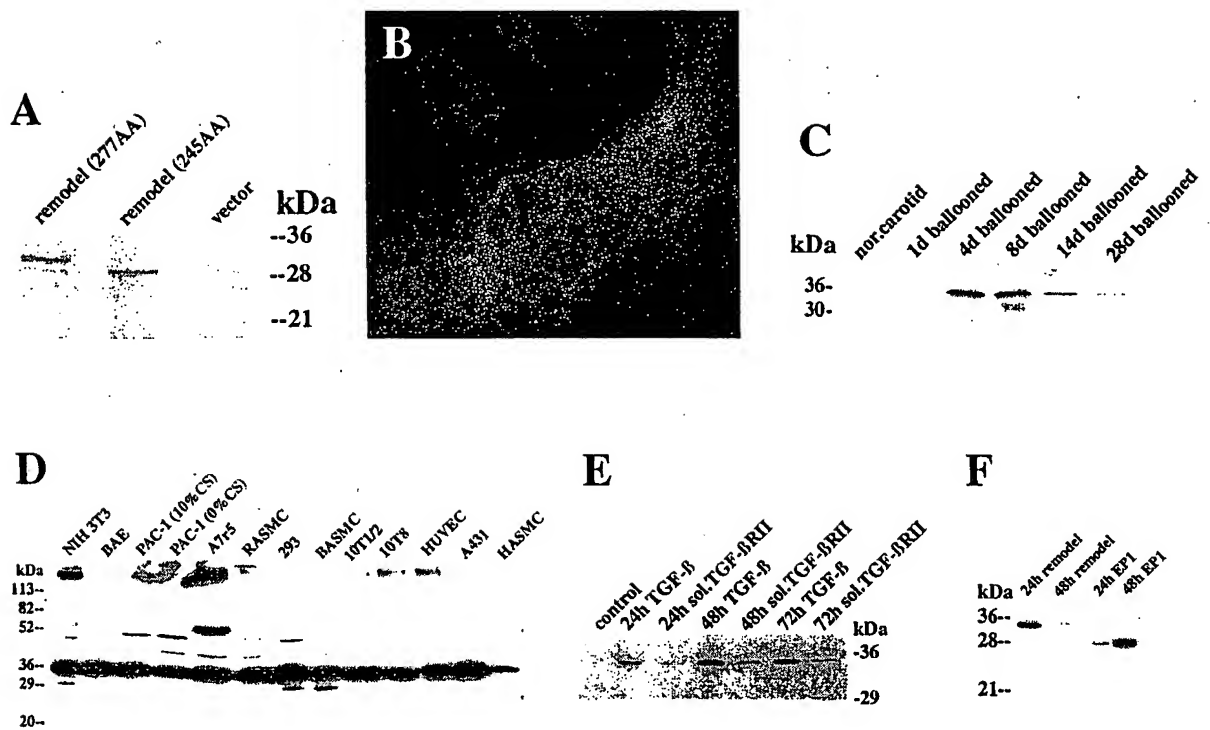


FIG. 5

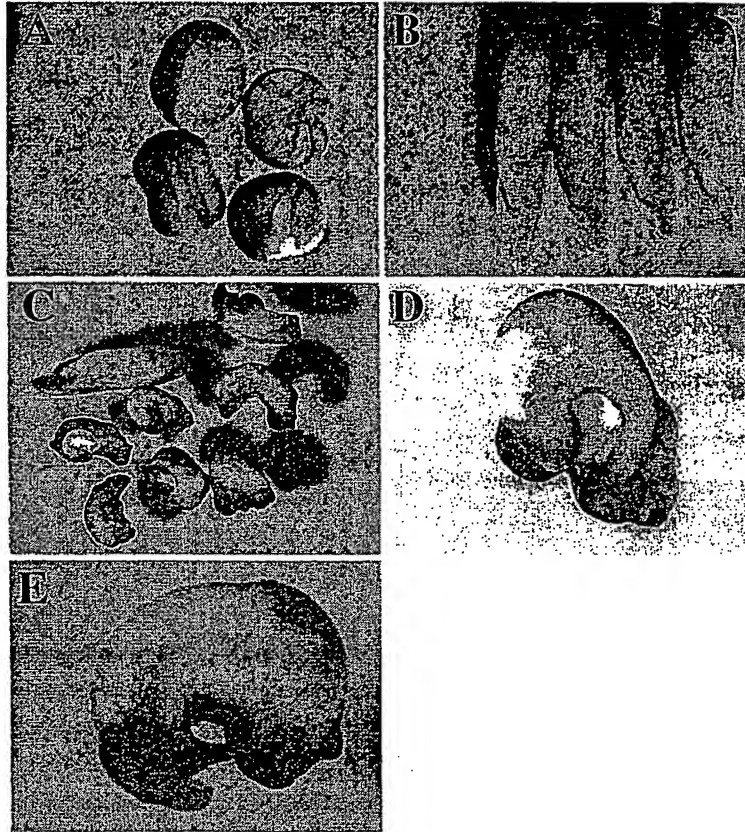


FIG. 6



ATG GCCCCCAAGG CCGCGCCGCC TCCCCACAGC TGCTGCTCGG CCTCTTCGTT GTGCTACTGC  
 TGCTTCTGCA GCTGTCCGCG CCGTCCAGCG CCTCTGAGAA TCCCAAGGTG AAGCAAAAAG  
 CGCTGATCCG GCAGAGGGAA GTGGTAGACC TGTATAATGG GATGTGCCTA CAAGGACCAG  
 CAGGAGTTCC TGGTCGCGAT GGGAGCCCTG GGGCCAATGG CATTCTGGC ACACCGGGAA  
 TCCCAGGTCG GGATGGATTG AAAGGAGAGA AAGGGGAGTG CTTAAGGGAA AGCTTTGAGG  
 AATCCTGGAC CCCAACTAC AAGCAGTGTT CATGGAGTTC ACTTAATTAT GGCATAGATC  
 TTGGGAAAAT TGCGGAATGT ACATTACAA AGATGCGATC CAACAGCGCT CTTGAGTTT  
 TGTTCAAGTG CTCGCTTCGG CTCAAATGCA GGAATGCTTG CTGTCAACGC TGGTATTTTA  
 CCTTTAATGG AGCTGAATGT TCAGGACCTC TTCCCATTGA AGCTATCATC TATCTGGACC  
 AAGGAAGCCC TGAGTTAAAT TCAACTATTA ATATTCATCG TACTTCCTCC GTGGAAGGAC  
 TCTGTGAAGG GATTGGTGCT GGACTGGTAG ACGTGGCCAT CTGGGTCGGC ACCTGTTGAG  
 ATTACCCCAA AGGAGACGCT TCTACTGGGT GGAATTCTGT GTCCCGCATC ATCATTGAAG  
 AACTACCAA A

FIG. 7

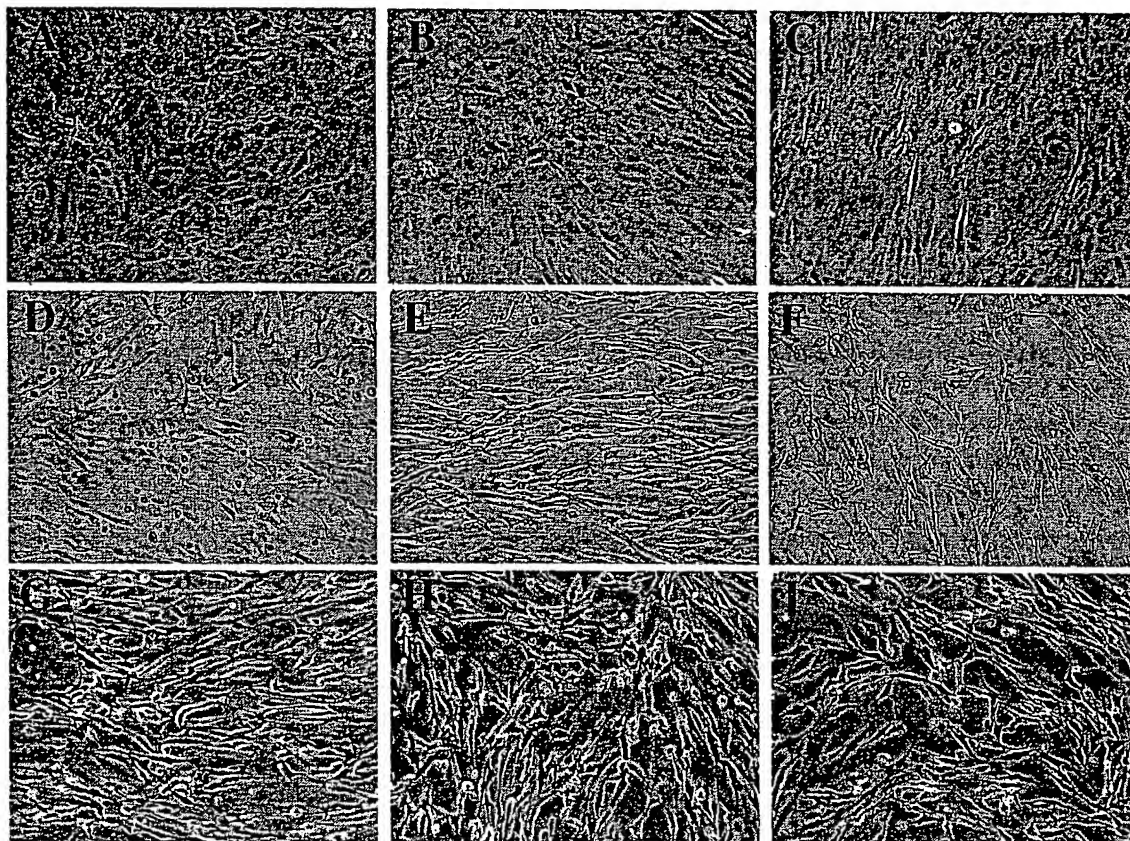


FIG. 8

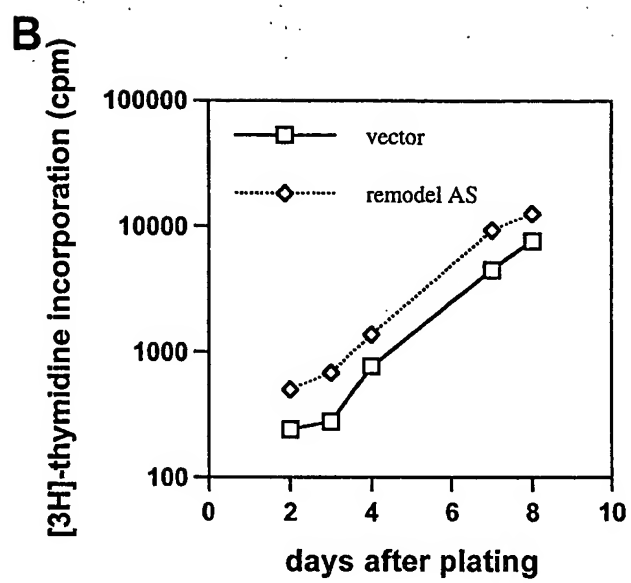
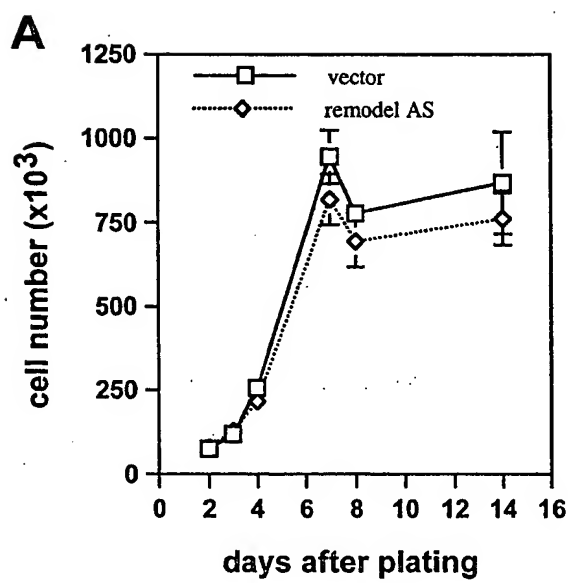


FIG. 9

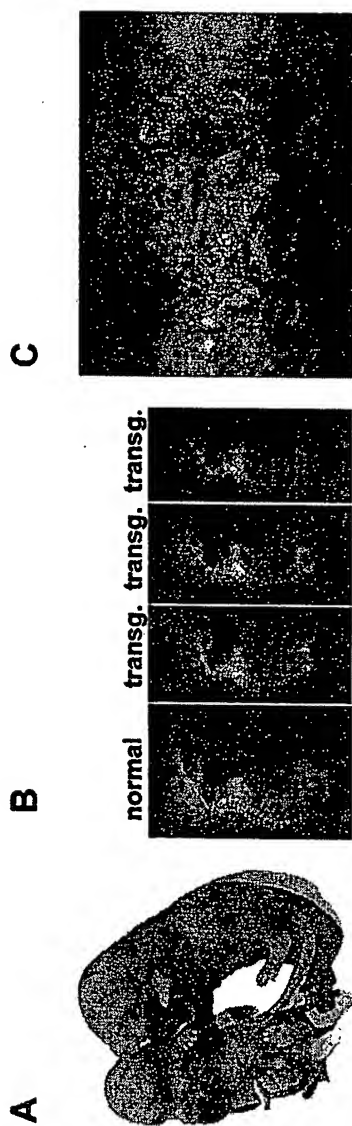


FIG. 10

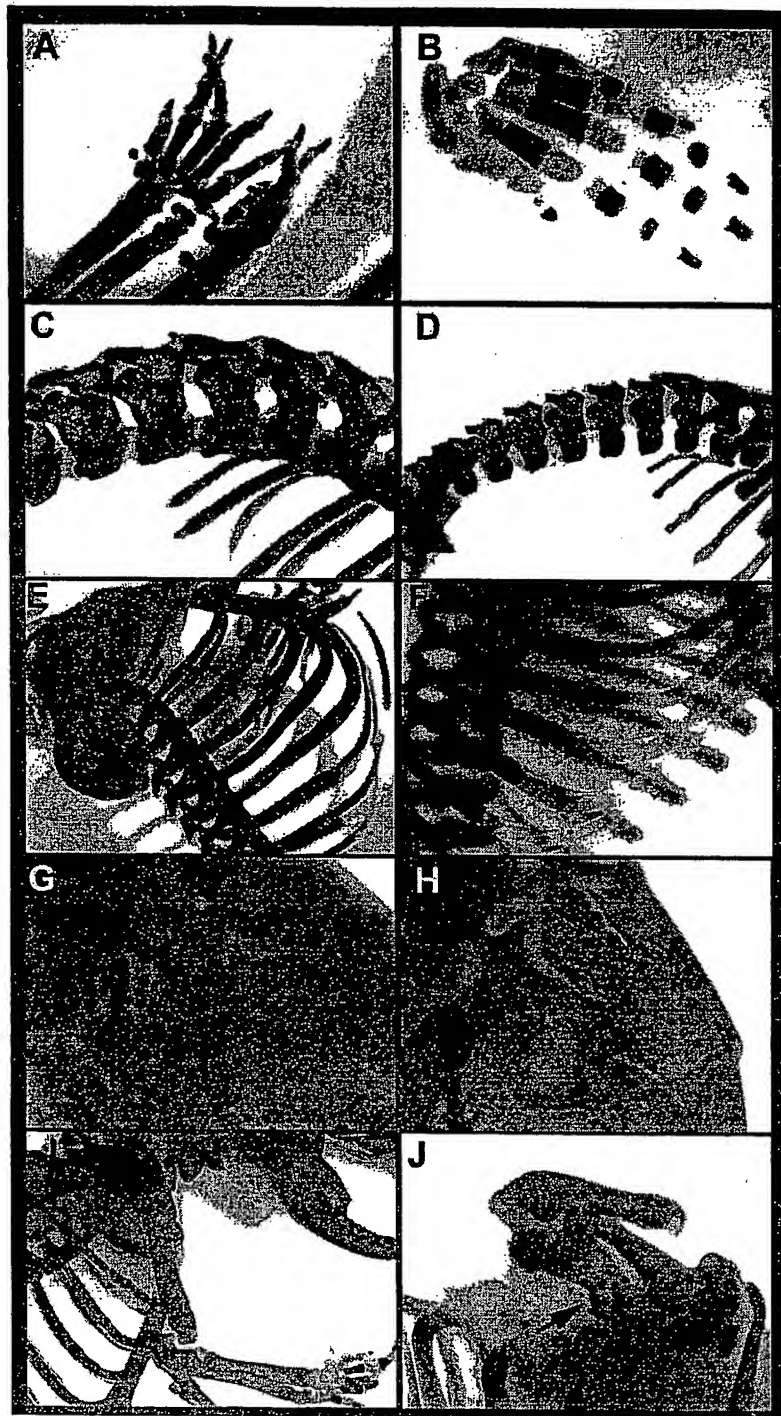


FIG. 11

CCACCCAGUAGAAGCGUCUCCUUUGGGGUAAUCUGAACAGGUGCCGACCCAGAUGGCC  
ACGUCUACCAGUCCAGCACCAAUCCCUUCACAGAGUCCUCCACGGAGGAAGUACGAU  
GAAUAUUAUAGUUGAAUUUAACUCAGGGCUUCCUUGGUCCAGAUAGAUGAUAGCUUC  
AAUGGGAAGAGGUCCUGAACAUUCAGCUCCAUUAAAGGUAAAAUACCAGCGUUGACAG  
CAAGCAUUCUGCAUUGAGCCGAAGCGAGCCACUGAACAGAACUCGAAGAGCGCUGU  
UGGAUCGCAUCUUUGUGAAUGUACAUCCGCAAUUUCCCAAGAUUAUGCCAUAUU  
AAGUGAACUCCAUGAACACUGCUUGUAGUUUGGGGUCCAGGAUCCUCAAGCUU

**FIG. 12**